

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Sri. Manikanta M V, Contractor, Bangalore.

Name of Work : Maintenance of roads and footpath in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID: : Cement (Birla Super 53 grade OPC)

Sample Supplied : AGENCY

by:

Date of : January - 2021

Manufacture:

Date of Testing : 25.01.2021 to 27.01.2021



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Job No.: CQCE/BBMP/MMV/W.No.12/2020-21

Date : 27.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
 Agency : Sri. Manikanta M V, Contractor, Bangalore.
 Name of Work : Maintenance of roads and footpath in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
 Date of Testing : 27.01.2021
 IS Code : IS 383:2016
 : IS 2386 (Part 1):1963(RA 2011)
 Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2836	56.7	60.4	39.6	25-55
4.75	1756	35.1	95.5	4.5	0-10

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 ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
 ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CQCE/BBMP/MMV/W.No.12/2020-21

Date : 28.01.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Sri. Manikanta M V, Contractor, Bangalore.
Name of Work : Maintenance of roads and footpath in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
Steel Dia/Length : 8mm, 10mm, 12mm" TMT"
Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
Date of test : IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
28.01.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress / yield stress (N/mm ²)	Tensile strength (N/mm ²)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.396	543	635	1.17	14
2	TMT	10	0.618	559	646	1.16	15.5
3	TMT	12	0.889	568	665	1.17	17

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Job No.: CQCE/BBMP/MMV/W.No.12/2020-21

Date: 12.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
 Agency : Sri. Manikanta M V, Contractor, Bangalore.
 Name of the work : Maintenance of roads and footpath in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
 Sample ID : Cement Concrete - Wall
 Size of cubes : 150mmx150mmx150mm
 Cross Sectional Area : 22500 mm²
 Technical Reference : IS: 516-1959 (Reaffirmed 2008)
 Grade of Concrete : M₂₅
 Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.02.2021	12.02.2021	8.128	395.6	17.58
2	05.02.2021	12.02.2021	8.156	389.1	17.29
3	05.02.2021	12.02.2021	8.164	408.1	18.14

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Date: 12.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Grade of Concrete : M₂₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.02.2021	12.02.2021	8.148	388.9	17.28
2	05.02.2021	12.02.2021	8.165	392.6	17.45
3	05.02.2021	12.02.2021	8.128	408.2	18.14

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Agency : Sri. Manikanta M V, Contractor, Bangalore.
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Sample ID : Cement Concrete - Wall
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M₂₅
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.02.2021	12.02.2021	8.189	389.6	17.32
2	05.02.2021	12.02.2021	8.165	392.3	17.44
3	05.02.2021	12.02.2021	8.172	372.5	16.56

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Job No.: CQCE/BBMP/MMV/W.No.12/2020-21

Date: 18.02.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Contractor : Sri. Manikanta M V, Contractor, Bangalore.
Name of Work : Maintenance of roads and footpath in Ward No.12 Shettyhalli, Shettyhalli Sub Division, BBMP, Bangalore.
No. of Sample Tested : 03
Date of Testing : 18.02.2021
Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M₂₅

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	90.00	126.00	1.899	2369.08	1.40	0.935	135.60	21.31	23.02	21.53	26.91
2	90.00	120.00	1.789	2343.44	1.33	0.928	132.90	20.89	22.56	20.94	26.17
3	90.00	128.00	1.954	2399.60	1.42	0.938	136.80	21.50	23.22	21.77	27.22

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